
CONTENTS OF VOLUME 37 – 1987

The Psychological Record a quarterly journal in theoretical and experimental psychology

EDITOR: Charles E. Rice
Kenyon College

ASSOCIATE EDITOR: Jon L. Williams
Kenyon College

BOARD OF EDITORS

NEIL R. BARTLETT, *University of Arizona*
S. HOWARD BARTLEY, *Memphis State University*
SIDNEY W. BIJOU, *University of Arizona*
WILLIAM F. BUSKIST, *Auburn University*
DAVID A. CHISZAR, *University of Colorado*
DONNA M. CONE, *Department of Mental Health, Rhode Island*
ROBERT S. DANIEL, *University of Missouri*
GORDON G. GALLUP, Jr., *State University of New York, Albany*
ARTHUR GUTMAN, *Florida Institute of Technology, Melbourne*
ALFRED E. HALL, *The College of Wooster*
PAUL D. ISAAC, *Ohio State University*
ROLF O. KROGER, *University of Toronto*
PARKER E. LICHTENSTEIN, *Newark, Ohio*
ROBERT W. LUNDIN, *University of the South*
DAVID O. LYON, *Western Michigan University*
MARION WHITE McPHERSON, *University of Akron*
TOM MINOR, *University of California, Los Angeles*
JAY MOORE, *University of Wisconsin, Milwaukee*
EDWARD K. MORRIS, *University of Kansas*
PAUL T. MOUNTJOY, *Western Michigan University*
ROGER D. RAY, *Rollins College*
EDWARD P. RILEY, *State University of New York, Albany*
DAVID C. ROWE, *University of Oklahoma*
DUANE M. RUMBAUGH, *Georgia State University*
THEODORE R. SARBIN, *University of California, Santa Cruz*
E. SUE SAVAGE-RUMBAUGH, *Yerkes Regional Primate Research Center*
KARL E. SCHEIBE, *Wesleyan University*
RONALD J. SCHUSTERMAN, *California State University, Hayward*
JAMES C. SMITH, *Florida State University*
NOEL W. SMITH, *State University of New York, Plattsburgh*
WILLIAM STEPHENSON, *University of Missouri*
PAUL SWARTZ, *University of Alberta*
JEFF S. TOPPING, *Mississippi State University*
EDWARD L. WALKER, *Pebble Beach, California*
IRVIN S. WOLF, *Leesburg, Florida*

MANAGING EDITOR: Edith C. Laird

COPY EDITOR: Mary M. Finkbeiner

Cover by Joyce K. Parr

We wish to acknowledge those individuals who contributed to Volume 37 by reviewing articles in particular areas of interest and expertise. Our appreciation is extended to the following: **Ian Begg**, McMaster Univ., Ontario; **E. O. Boyanowski**, Simon Fraser Univ.; **Al L. Cone**, Pikeville College; **W. Miles Cox**, Univ. of Minnesota; **Stephen F. Davis**, Emporia State Univ.; **Dennis J. Delprato**, Eastern Michigan Univ.; **Allan Fenigstein**, Kenyon College; **Donald Griffen**, Rockefeller Univ.; **Thomas E. Hagaman**, Research Assistance Corp., Evansville, IN.; **Peter Harzem**, Auburn Univ.; **Richard Haude**, Univ. of Akron; **Richard B. Hoppe**, Kenyon College; **John P. Hostetler**, Albion College; **Raymond L. Jackson**, Univ. of Texas, Arlington; **John C. Jahnke**, Miami Univ. Oxford; **Peter Kaplan**, Univ. of Colorado; **Arthur P. Leccese**, Kenyon College; **Michael Levine**, Kenyon College; **David Lopatto**, Grinnell College; **Linda J. Parrott**, St. Mary's Univ., Halifax; **Richard Pisacreta**, Ferris State College; **John A. Popplestone**, Univ. of Akron; **Rosemary A. Rosser**, Univ. of Arizona; **Matthew J. Sharpe**, Univ. of Colorado, Boulder.

CONTENTS OF VOLUME 37 — 1987

ARTICLES

ADAMS, NELSON. Defeat and Cardiovascular Response	349
ANGELO, DIANNE, see GOLDSTEIN, HOWARD	89
BAMMER, G. Movement Patterns of Wild House Mice in a Four-Arm Residential Maze	
BARNETT, S. A., see BAMMER, G.	
BARON, ALAN, see PERONE, MICHAEL	227
BARRETT, DRUE H. The Effects of Programmed Contingencies and Social Conditions on Response Stereotypy with Human Subjects	
BENNETT, ROBERT H. Human Performance Under Progressive Ratio Contingencies	213
BERRY, J. W., see RUDMIN, F. W.	257
BEST, MICHAEL R. The Effects of Flavor-Aversion Learning on Instrumental Performance	43
BEST, MICHAEL, see DAVIS, STEPHEN F.	399
BICKEL, WARREN K. The Quantal Interpretation of Stimulus Control	155
BIJOU, SIDNEY W., see GHEZZI, PATRICK M.	109
BLANCHARD, D. CAROLINE, see BLANCHARD, ROBERT J.	305
BLANCHARD, ROBERT J. The Concept of Defense in Animal Psychology: Introductory Remarks to the Symposium on Defensive Behavior, International Society for Research on Aggression	301
BLANCHARD, ROBERT J. An Ethoexperimental Approach to the Study of Fear	305
BLIZARD, DAVID A., see ADAMS, NELSON	349
BROWNSTEIN, AARON J. Toward a Systematic Approach to the Study of Complex Human Functioning	35
BURNS, RICHARD A. Serial Anticipation and Transfer in Reversed Series with Rats	
BUSKIST, WILLIAM, see MORGAN, DAVID L.	199
CARVAJAL, HOWARD. Relationships Between Scores on the General Purpose Abbreviated Battery of Stanford-Bine IV, Peabody Picture Vocabulary Test-Revised, Columbia Mental Maturity Scale, and Goodenough-Harris Drawing Test	127
CHAO, CHIA-CHEN, see GHEZZI, PATRICK, M.	109
DEITZ, SAMUEL, M. On the Relation Between the Experimental Analysis of Human Behavior and Applied Behavior Analysis	29
DEITZ, SAMUEL M., see BARRETT, DRUE H.	
DAVIS, STEPHEN F. Taste-Aversion Conditioning Disrupts Instrumental Performance: The Effects of Novel Taste and Locus of Conditioning	399
DAVIS, STEPHEN F., see BEST, MICHAEL R.	43
DAVIS, STEPHEN F., see RICHARD, M. MELISSA	79
ELDER, RICHARD, see KLEIN, STEPHEN B.	55
EMMETT-OGLESBY, M. W., see MATHIS, D. A.	161
ETZEL, BARBARA C. Pigeons and Children: What are the Differences?	17
FANSELOW, MICHAEL S. Functional Behaviorism and Aversively Motivated Behavior: A Role for Endogenous Opioids in the Defensive Behavior of the Rat	317
FANSELOW, MICHAEL S. Response Selection and the Hierarchical Organization of Species-Specific Defense Reactions: The Relationship Between Freezing, Flight, and Defensive Burying	381

FLEMING, ROBERT J., see TYSON, PAUL D.	269
GALIZIO, MARK. Interpretation Versus Experimentation in the Experimental Analysis of Human Behavior	11
GAUVIN, DAVID V. The Drug Discrimination Procedure: A Microanalysis of the Qualitative Properties of Quantal Responses	167
GAYDOS, GERARD R., see BARRETT, DRUE H.	
GHEZZI, PATRICK M. Influence of Age of Listener on Preadolescents' Linguistic Behavior	109
GOLDSTEIN, HOWARD. Effects of Training Method and Word Order on Adults' Acquisition of Miniature Linguistic Systems	89
GROVER, CATHY A., see DAVIS, STEPHEN F.	399
GROVER, CATHY A., see RICHARD, M. MELISSA	79
HARRIS, C. M., see MATHIS, D. A.	161
JAIN, SWARAN K., see MINOR, KEVIN I.	429
KARR, SHARON K., see MINOR, KEVIN I.	429
KENDALL, STEPHEN B. An Animal Analogue of Gambling	247
KLEIN, STEPHEN B. The Elusiveness of Gustatory Potentiation of an Environmental Aversion	55
LAL, H., see MATHIS, D. A.	161
LANCIONI, GIULIO E., see SMEETS, PAUL M.	
LARSEN, JANET D. Does the Wording of the Question Change the Number of Headaches People Report on a Health Questionnaire?	423
LASHLEY, ROBIN L. Associative Control of Schedule-Induced Polydipsia	
LATTAL, KENNON A., see LEFRANCOIS, JANET R.	387
LEFRANCOIS, JANET R. The Temporal Relation Between Contingent Events in Positive Automaintenance	387
MCKNAB, PAUL, see CARVAJAL, HOWARD	127
MAHAN, HARRY C. Interbehavioral Perspectives: On Act Psychologies and the Psychological Nouns	131
MARPLES, T. G., see BAMMER, G.	
MASCHARKA, CATHERINE, see LARSEN, JANET D.	423
MATHIS, D. A. Quantal Nature of Generalization and Acquisition Responding by Rats in a Drug Discrimination Task	161
MEACHUM, CYNTHIA L., see BEST, MICHAEL R.	43
MICHAEL, JACK. Comments by the Discussant	37
MINOR, KEVIN I. An Examination of the Utility of the MMP1 in Predicting Male Prison Inmates' Abusive Parenting Attitudes	429
MOORE, JAY. The Roots of the Family Tree: A Review of Four Books on the History and Nature of Behaviorism	
MORGAN, DAVID L. "Level of Aspiration": Preference for Time Versus Response Feedback and History Effects on the Setting of Personal Performance Standards	199
MORRIS, EDWARD K., see WAGNER, GREGORY A.	
MOWRER, ROBERT R. Latent Inhibition of Contextual Stimuli Reduces the US Preexposure Effect in Rats	239
NASH, SUSAN M., see BEST, MICHAEL R.	43
NAVARICK, DOUGLAS J. Reinforcement Probability and Delay as Determinants of Human Impulsiveness	219
PAYNE, TERRI L., see BURNS, RICHARD A.	
PERONE, CHERYL LYNN, see PERONE, MICHAEL	227
PERONE, MICHAEL. Inhibition by Reinforcement: Effects of Reinforcer Magnitude and Timeout on Fixed-Ratio Pausing	227
PISACRETA, RICHARD. Stimulus Control of the Pigeon's Ability to Peck Multiple Relocating Targets: Stereotypy Prevents Effective Strategies	
QUINN, PATRICK C., see BARRETT, DRUE H.	
RANDALL, J. I., see RODGERS, R. J.	335

REDWOOD, EDWARD, see PISACRETA, RICHARD	
RICHARD, M. MELISSA. Gale's Transfer-of-Information Effect Occurs in a Free-Foraging Situation	79
RICHARD, M. MELISSA, see DAVIS, STEPHEN F.	399
RIDER, DAVID P. Temporal Control of Responding Under Mixed Fixed-Interval Schedules of Reinforcement	409
RODGERS, R. J. Defensive Analgesia in Rats and Mice	335
ROSELLINI, ROBERT A., see LASHLEY, ROBIN L.	
RUDMIN, F. W. Semantics of Ownership: A Free-Recall Study of Property	257
SAMSON, H. H., see BENNETT, ROBERT H.	213
SCHINDLER, CHARLES W., see WEISS, STANLEY J.	177
SELLERS, TODD, see CARVAJAL, HOWARD	127
SHULL, RICHARD L., see BROWNSTEIN, AARON, J.	35
SIGMUNDI, RONALD A., see FANSELOW, MICHAEL S.	317
SIGMUNDI, RONALD A., see FANSELOW, MICHAEL S.	381
SMEETS, PAUL M. Discrimination Training Through Time Delay of Multistimulus Prompts: The Shapes and Locations of the Prompts	
STARIN, STEPHEN P. Responding Under Homogeneous Versus Heterogeneous Chained Schedules	69
STEPHENS, JOANNE, see BURNS, RICHARD A.	
STEPHENSON, WILLIAM. William James, Niels Bohr, and Complementarity: III - Schrodinger's Cat	
WAGNER, GREGORY A. "Superstitious" Behavior in Children	
STRIEFEL, SEBASTIAN, see SMEETS, PAUL M.	
TORONSKI, CAMILLE, see LARSEN, JANET D.	423
TYSON, PAUL D. Semantic Satiation, Aftereffects, and Recognition Memory for Positive, Negative, Neutral, and Mixed Lists of Words	269
UMBREIT, JOHN, see GHEZZI, PATRICK M.	109
WEISS, STANLEY J. The Composite-Stimulus Analysis and the Quantal Nature of Stimulus Control: Response and Incentive Factors	177
WETHERBY, BRUCE, see GOLDSTEIN, HOWARD	89
WEYAND, KIMBERLEY, see CARVAJAL, HOWARD	127
WILLIAMS, BEN A. Limitations on the Notion of Quantal Stimulus Control	193
WILLIAMS, JON L. Effects of Shock Controllability on Alpha Male Aggression and Defense, Defeat of Intruders, and Defensive Burying	369
WILLIAMS, JON L., see BLANCHARD, ROBERT J.	301
WILLIAMS, JON L., see FANSELOW, MICHAEL S.	381
WITT, KEVIN, see PISACRETA, RICHARD	
YOUNG, ALICE M., see GAUVIN, DAVID V.	167

BOOK REVIEWS AND BOOK NOTES

BLACKMORE, SUSAN. <i>The Adventures of a Parapsychologist</i> . (Noel W. Smith)	441
CARR, C. J., & JOKL, E. (Eds.). <i>Enhancers of Performance and Endurance</i> . (Arthur P. Leccese)	442
CIRILLO, L., & WAPNER, S. (Eds.). <i>Value Presuppositions in Theories of Human Development</i> . (Jaan Valsiner)	143.
FRAZIER, KENDRICK (Ed.). <i>Science Confronts the Paranormal</i> . (Richard B. Hoppe)	139
GREENBERG, G., & TOBACH, E. (Eds.). <i>Behavioral Evolution and Integrative Levels</i> . (Thomas E. Hagaman)	285
HAGEN, MARGARET. A. <i>Varieties of Realism: Geometries of Representational Art</i> . (Duncan A. White & Janis Bell)	438

HILGARD, ERNEST R. <i>Psychology in America: A Historical Survey.</i> (John A. Popplestone)	135
HOPKINS, PANDORA. <i>Aural Thinking in Norway.</i> (Robert W. Lundin)	441
HORNE, MARCIA D. <i>Attitudes Toward Handicapped Students:</i> <i>Professional, Peer and Parent Reactions.</i> (Donna M. Cone)	145
LEDOUX, J. E., & HIRST, W. <i>Mind and Brain:</i> <i>Dialogues in Cognitive Neuroscience.</i> (Harry C. Mahan)	439
LOWE, C. F., RICHELLE, M., BLACKMAN, D. E., & BRADSHAW, C. M. (Eds.). <i>Behavior Analysis</i> <i>and Contemporary Psychology.</i> (Noel W. Smith)	290
MEISEL, C. JULIUS (Ed.). <i>Mainstreaming Handicapped Children:</i> <i>Outcomes, Controversies and New Directions.</i> (Donna M. Cone)	144
OAKLEY, D. A. (Ed.). <i>Brain and Mind.</i> (Harry C. Mahan)	140
SCHUSTERMAN, R. D., THOMAS, JEANETTE A., & WOOD, FORREST G. (Eds.). <i>Dolphin Cognition and Behavior:</i> <i>A Comparative Approach.</i> (Charles E. Rice)	287
SEGAL, JUDITH W., CHIPMAN, S. F., & GLASER, ROBERT (Eds.). <i>Thinking and Learning Skills.</i> (Berne Jacobs)	437
SMITH, LAURENCE D. <i>Behaviorism and Logical Positivism:</i> <i>A Reassessment of the Alliance</i> (Noel W. Smith)	440
STRELAU, J., FARLEY, F. H., & GALE, A. <i>The Biological Bases</i> <i>of Personality and Behavior: Vol. 1. Theories,</i> <i>Measurement Techniques, and Development.</i> (Harry C. Mahan)	145
THOMPSON, TRAVIS, & ZEILER, MICHAEL D. (Eds.). <i>Analysis</i> <i>and Integration of Behavioral Units.</i> (Dennis J. Delprato)	284
WALTHER, FRITZ R. <i>Communication and Expression in Hoofed Mammals.</i> (David A. Chiszar)	283
WARREN, WILLIAM H., JR., & SHAW, ROBERT E. (Eds.). <i>Persistence and Change: Proceedings</i> <i>of the First International Conference on Event Perception.</i> (Parker E. Lichtenstein)	136
WESTEN, D. <i>Self and Society: Narcissism, Collectivism,</i> <i>and the Development of Morals.</i> (Jaan Valsiner)	141
WINETT, RICHARD A. <i>Information and Behavior:</i> <i>Systems of Influence.</i> (Dennis J. Delprato)	290